

Fibre optics

European leader in advanced
technology solutions



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consult. design. integrate.

About Acal BFi

Acal BFi are Europe's leading provider of advanced technology solutions, operating in 12 countries throughout Europe.

We offer products across specialist technology areas, each with a dedicated pan-European sales team. Customers use our design-led expertise and expert consultation services to find the best technology solutions for their design, prototype and production needs.

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Products and support

Cables and Connectors

Embedded computing

Imaging

Magnetic components

Power

Semiconductors

Electromechanical

Fibre optics

M2M and Wireless modules

Photonics

RF and Frequency control

Sensors



Bringing cutting-edge fibre optics from suppliers you can trust

We offer one of the most complete selections of standard and cutting-edge fibre optical technologies on the market – the result of our partnerships with best-in-class manufacturers.

Our comprehensive solutions include MSA-compatible pluggable solutions and advanced embedded parallel optics that allow designers to solve interconnect bandwidth challenges in communications, computing and consumer applications. We offer a complete portfolio of fibre optic components and accessories across standard, emerging and specialist markets.

Fibre optic cable assemblies service

When you need optical fibre-based cable assemblies for demanding applications, we can design and produce the right solution for you, using either our own in-house capabilities or working with industry leader, OFS.

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Support from design to installation

Acal BFi work with you to select the right fibre for your system, whether operating in single- or multi-mode. We also define the correct cable and connection system to meet the specific environmental operating conditions of your system. We have our own ISO9001 in-house facility providing assembly, termination and testing services. Our key partner, OFS, also have a full-service, state-of-the-art assembly house for more specialist requirements such as; durable high-bandwidth multimode fibre optic cabling solutions, strength enhanced GiHCS optical fibres and ruggedised industrial fibre optic cables.

- **Bespoke fibre solutions** – the ability to create in-house or via our partner, OFS, the best solution for your needs.
- **Improved system performance** – optical fibre cable assembly is optimised both mechanically and optically to your system needs.
- **Wide range of fibre types** – to suit all non-telecom industrial, medical, Mil/aerospace or sensing applications.
- **Wide range of connector systems available** – from crimp-and-leave, through industry standard connection systems, to fibre metalisation and ferrules.
- **Shorter development cycles** – first article samples are typically available within 4-6 weeks.
- **Total cost of ownership reduced** – cables are supplied complete, tested and ready to install.
- **Delivery anywhere in the world** – supporting delivery of cable assemblies directly to the required point of use.
- **Quality and reliability** – all designs are manufactured in facilities accredited with ISO9001 and ISO13485.



Key partners overview

Acal BFi work with the leading manufacturers in their field, offering you a complete solution for your fibre optic needs.



Acal BFi's dedicated in-house engineering team can provide expertise and know-how to ensure your fibre optic systems are designed, installed and maintained to expert levels.



AC Photonics are an established, fast-growing, fibre-optic-component manufacturer, specialising in the field of passive fibre-optic components and custom-made solutions. With R&D in the US and multiple production facilities in Asia, AC Photonics are able to deliver a vast, competitive product range.



AGx Technologies specialise in analogue fibre-optic components for use in optical communication applications, with heavy focus on product quality and reliability. High output power and high linearity make AGx's products especially suitable for CATV, FTTx and RF-over-fibre applications.



Amphenol are a premier manufacturer of optical interconnect products. They are a division of Amphenol Corporation, with over 70 years of experience in providing total interconnect solutions to customers throughout the world.



Amphenol Fiber Systems International are a provider of reliable and innovative fibre-optic interconnect solutions that withstand the harsh environments of military (ground systems, avionics, shipboard), energy and broadcast applications.



Avago Technologies are at the cutting edge in high-density optical interconnects for data centres and cloud computing, offering a complete set of parallel optic solutions including embedded solutions as well as pluggable QSFP+ and CXP fibre optic transceivers and active-optical cables.



Coretek Opto Corporation are a leading provider of customised optical modules in industrial automation applications worldwide.



Harting are skilled in the fields of electrical, electronic and optical connection, transmission and networking. They develop and manufacture connectors, device terminations, network components and cable harnesses for networks, machinery, power and data applications.



JDSU are a leading provider of optical products and test and measurement solutions for the communications industry. The JDSU technology portfolio is a key enabler for optical solutions in industries such as broadband communications, brand enhancement and authentication, manufacturing and energy.



Lightron design and build a range of optical transceiver modules for FTTx (fibre-to-the-x), telecom/datacom, CATV and wireless communication applications. Their portfolio includes a full range of FTTx ONU/OLT transceivers, high-precision discrete lasers and receivers for CATV, and RFoG (Radio frequency over glass).



NEL Photonics are the partner of choice for AWGs, thermo-optic switches, wavelength converters, 10Gbps direct modulation uncooled DFB laser modules and narrow linewidth butterfly DFB lasers for gas sensing.



OFS design, manufacture and provide optical fibre, fibre optic cable, connectivity, FTTx and speciality optical fibre solutions for telecommunications, medical, industrial, energy, sensing, government, aerospace and defence industries.

Key technologies and suppliers

The Acal BFi fibre optics portfolio



Actives

- YDFA Amplifiers
- EDFA Amplifiers
- EYDFA Amplifiers
- ASE broadband light sources
- Wavelength conversion modules



Cables and assemblies

- Aerospace
- Crimp and cleave
- Customised assemblies
- Harsh environment
- HCS multi-mode fibres
- Hybrid fibre optics
- Industrial indoor/outdoor
- Low smoke zero halogen
- Metalised pigtailed
- Micro cables

- Terminations
- Test kits



CATV products

- Analogue PIN receiver
- Cooled DFB
- Uncooled DFB
- Laser/PD/WDM assemblies
- Optical amplifiers



Connectors

- Custom solutions
- FC, ST, LC, SC
- Crimp and cleave
- Termination kits
- MSA transceiver cages/connectors



Detectors / ROSA

- Custom solutions
- Detectors and emitters
- MSA compatible
- Pig tailed solutions



Industrial control

- Customised modules
- High galvanic isolation links
- Receivers
- Transmitters
- Transceivers 1x9, 2x9, SFB, SFF, XFP, CSFP, CFP



Lasers / emitters / TOSA

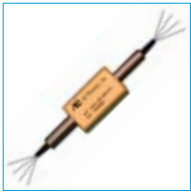
- Broadband light sources
- Custom solutions
- Detectors and emitters
- Gas sensing lasers
- MSA compatible
- Pig tailed solutions





Parallel optical solutions

- 4 channel transceivers
- 12 channel transceivers
- 10 to 120Gb/s solutions
- Micropod™/Minipod™ 120 Tx/Rx



Passives

- Couplers and splitters
- Optical switch
- Optical attenuator
- Optical channel monitor
- MUX/DEMUX
- Collimators
- AWG
- Variable optical attenuators



RF over fibre

- Bi-directional modules
- Custom solutions
- Transceivers
- Pig tailed solutions
- Multi-Ghz transmitters and receivers



Speciality fibre

- Custom solutions
- Harsh environment
- Sensing fibres
- Single- and multi-mode
- Tight bend
- HCS
- GIHCS
- Plastic optical fibre



Transceivers

- Active optical cables
- Custom solutions
- Industrial
- MSA compliant
- Telecom and datacom
- Tunable



	Actives	Cables and assemblies	CATV products	Connectors	Detectors / ROSA	Industrial control	Laser / emitters / TOSA	Parallel optics	Passives	RF over fibre	Speciality fibre	Transceivers
Acal BFi		•										
AC Photonics	•						•		•			
AGx			•		•		•			•		
Amphenol		•		•								
Amphenol Fiber Systems		•										
Avago Technologies		•		•	•	•	•	•	•	•	•	•
Coretek Opto Corporation						•						•
Harting		•										
JDSU					•		•					•
Lightron			•		•		•			•		•
NEL Photonics	•				•		•		•			
OFS		•		•							•	



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